City of Maryville

Position Title: Electric Engineer

Position Type: Full-time; Exempt

What we offer: Excellent benefit package includes health, dental and vision insurance, life insurance, retirement pension with Tennessee Consolidated Retirement System, Section 457 plan, Roth IRA, and 24 hour access to onsite fully equipped fitness center.

Minimum Annual Salary: Dependent on qualifications and experience.

About This Opportunity:

The City of Maryville Electric Department is responsible for the physical power system - doing the field work required to establish, restore, and maintain service and electrical facilities. The Electric Engineer is responsible for evaluating site and road project plans, preparing and assigning electric distribution system plans, inspecting work, conducting research, managing and improving the electric distribution system, assisting with the organization of field work, and related work as apparent or assigned.

Essential Functions:

- Reviews site and road project plans for conflicts and electrical requirements; communicates orally and in writing with customers, consultants, developers, engineers, and planners.
- Develops and assigns plans to modify or extend electric distribution system for project or customer needs.
- Inspects, analyzes, develops, and assigns plans to modify, maintain, and upgrade the electric distribution system; calculates loads on distribution system; maintains proper wire size and engineering practices per codes.
- Assists with coordination of fieldwork with electric crews, job contractors, engineers and developers; assists with system analysis and dispatching during widespread outages or other emergencies.
- Manages outdoor lighting including security and streetlights.
- Assists with substation maintenance.
- Procures distribution transformers, tracks upcoming requirements, and maintains transformer inventory.
- Utilizes, updates, and corrects data within various utility-related software in conjunction with system changes.
- Serves customers and other City departments by addressing questions regarding facilities, service availability, job status, and power quality issues; provides cost estimates for provision of electric service or for facility relocation.

Knowledge, Skills, and Abilities:

- Thorough knowledge of the principles and practices of electrical engineering and of electric distribution systems.
- General knowledge of GIS/ESRI maps with land base features and utilities.
- General knowledge of MilSoft utility/engineering software and Tantalus.
• Skilled in the use of various electrical engineering instruments; in reading and interpreting charts with historical data related to distribution and substation loading and balancing; in reading and interpreting one-line and schematic diagrams.
• Ability to read blueprints, maps, and operation and service manuals and prepare technical reports.
• Ability to create cost estimates and bill of materials.
• Ability to prepare, review and interpret engineering plans and specifications.
• Ability to make arithmetic computations using whole numbers, fractions, and decimals; ability to compute rates, ratios, and percentages; ability to use trigonometry for electrical and mechanical calculations.
• Ability to schedule, manage, and prioritize numerous functions and simultaneous projects.
• Ability to calculate stresses and deflections in structures.
• Ability to establish and maintain effective working relationships with staff, consultants, contractors, customers, developers, engineers, crew supervisors and workers, inspectors, and the general public.
• Ability to communicate effectively in oral and written form.
• Ability to research, collect and organize data.
• Ability to perform and organize work independently and to coordinate with others when needed.

**Physical Requirements:**

This work requires the occasional exertion of up to 25 pounds of force; work regularly requires sitting, frequent speaking or hearing and using hands to finger, handle or feel and occasionally requires standing, walking, climbing or balancing, stooping, kneeling, crouching or crawling, reaching with hands and arms, pushing or pulling, lifting and repetitive motions; work requires close vision, distance vision, ability to adjust focus, depth perception and color perception; vocal communication is required for expressing or exchanging ideas by means of the spoken word and conveying detailed or important instructions to other accurately, loudly or quickly; hearing is required to perceive information at normal spoken word levels and to receive detailed information through oral communications and/or to make fine distinctions in sound; work requires preparing and analyzing written or computer data, visual inspection involving small defects and/or small parts, using measuring devices, operating machines, operating motor vehicles or equipment and observing general surroundings and activities; work occasionally requires working near moving mechanical parts, exposure to outdoor weather conditions and exposure to the risk of electrical shock; work is generally in a moderately noisy location (e.g. business office with typewriters and/or computer printers, light traffic).

**Education and Experience:**

Bachelor’s degree in electrical engineering or related field and minimal experience in electrical engineering work, preferably in an electric utility, or equivalent combination of education and experience.

**Special Requirements:**

Must meet and maintain all training and education requirements for position.

National Electric Safety Code Training within one year of hire.

Must possess a valid driver’s license to operate a motor vehicle in the State of Tennessee.

**How to Apply:**

A City of Maryville employment application is required for consideration. An electronic application is available on our website, [www.maryvillegov.com/jobs](http://www.maryvillegov.com/jobs). Paper applications are available in the front lobby of the Maryville Municipal Building, 400 W. Broadway Ave., Maryville, TN 37801. Please submit your application, resume and cover letter by email to humanresources@maryville-tn.gov, by fax to 865-273-3434 or in person in Human Resources.

City of Maryville is an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status or any other characteristic protected by law.